

RE: B240082 - Lot 184 HT

Site Information:

Project Customer: Summit Homes Project Name:

Lot/Block: 184 Subdivision: Hawthorn Ridge

Model: Charlotte - Craftsman Address: 1609 SW Arborway Terr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

Wind Code: ASCE 7-16 [Noting R.Specjed: 115 mph Design Method: MWFRS (Envelope) ASCE 7-16 [Low Rise]

Roof Load: 45.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 15 Exposure Category: C

No. 123456789111231456718901223	Seal# I65090777 I65090778 I65090780 I65090780 I65090781 I65090783 I65090786 I65090786 I65090787 I65090790 I65090791 I65090791 I65090791 I65090791 I65090791 I65090791 I65090791 I65090790	Truss Name A1 A2 A3 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 C1 C2 D1 C2 D3	P Date 4/24/24	No. 35 36 37 38 39 41 42 43 44 45 46	Seal# 165090811 165090812 165090813 165090816 165090816 165090818 165090819 165090820 165090822	Truss Name V9 V10 V11 V12 V13 V14 V15 V16 V17 V18 V19 V20	e Date 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24 4/24/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

April 24,2024

1 of 1

Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	A1	Common Supported Gable	1	1	Job Reference (optional)	165090777

10-4-0

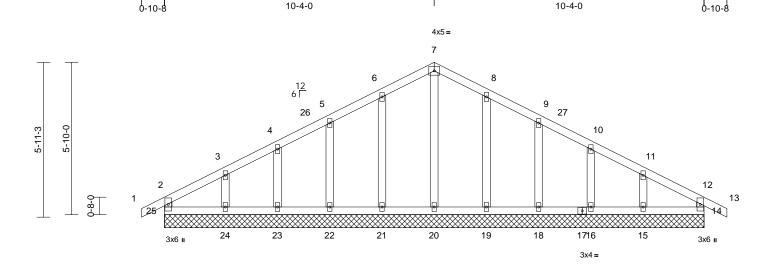
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:18 ID:GflFd0dR4dHWxDbU?CWpn2zNv4U-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

20-8-0

Page: 1

21-6-8



Scale = 1:44.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

14=20-8-0, 15=20-8-0, 16=20-8-0, 18=20-8-0, 19=20-8-0, 20=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0, 24=20-8-0, 25=20-8-0

Max Horiz 25=80 (LC 11)

Max Uplift 14=-9 (LC 12), 15=-64 (LC 13), 16=-38 (LC 13), 18=-46 (LC 13),

19=-44 (LC 13), 21=-45 (LC 12), 22=-46 (LC 12), 23=-36 (LC 12), 24=-70 (LC 12), 25=-23 (LC 13)

Max Grav 14=176 (LC 2), 15=187 (LC 33), 16=179 (LC 2), 18=186 (LC 20), 19=213 (LC 20), 20=169 (LC 29), 21=213 (LC 19), 22=186 (LC 19), 23=179 (LC 2), 24=187 (LC 32),

25=176 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension
TOP CHORD 2-25=-156/33. 1-2=0/32. 2-3=-83/54.

3-4=-55/69, 4-5=-45/93, 5-6=-42/117, 6-7=-48/138, 7-8=-48/131, 8-9=-42/96, 9-10=-39/72, 10-11=-39/49, 11-12=-66/37,

12-13=0/32, 12-14=-156/21

BOT CHORD 24-25=-17/67, 23-24=-17/67, 22-23=-17/67, 21-22=-17/67, 20-21=-17/67, 19-20=-17/67,

18-19=-17/67, 16-18=-17/67, 15-16=-17/67, 14-15

WEBS

7-20=-129/0, 6-21=-173/69, 5-22=-145/69, 4-23=-140/62, 3-24=-143/86, 8-19=-173/68, 9-18=-145/69, 10-16=-140/63, 11-15=-143/83

20-8-0

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SPF No.2.

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 25, 9 lb uplift at joint 14, 45 lb uplift at joint 21, 46 lb uplift at joint 22, 36 lb uplift at joint 23, 70 lb uplift at joint 24, 44 lb uplift at joint 19, 46 lb uplift at joint 18, 38 lb uplift at joint 16 and 64 lb uplift at joint 15.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

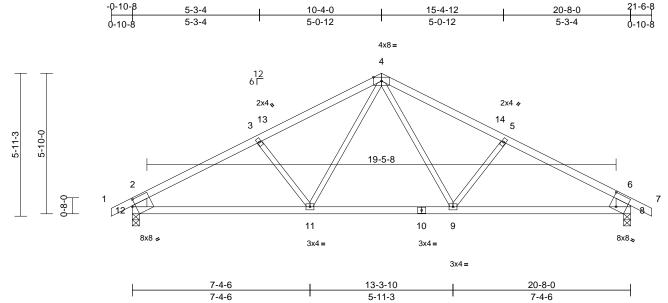
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCS1 Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	A2	Common	4	1	Job Reference (optional)	165090778

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:19 ID:pYrbhwRTICj0TWDMRnDX?BzNv3R-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.8

Plate Offsets (X, Y): [8:0-3-2,0-6-8], [12:0-1-10,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.12	9-11	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.21	9-11	>999	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9-11	>999	240		
BCDL	10.0										Weight: 70 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 12-2,8-6:2x8 SP

2400F 2.0E BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

REACTIONS (size)

8=0-3-8, 12=0-3-8 Max Horiz 12=82 (LC 11)

Max Uplift 8=-99 (LC 13), 12=-99 (LC 12)

Max Grav 8=985 (LC 2), 12=985 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/37, 2-3=-1364/138, 3-4=-1171/138,

4-5=-1171/138, 5-6=-1364/139, 6-7=0/37,

2-12=-895/138, 6-8=-895/138

BOT CHORD 11-12=-129/1118, 9-11=-5/822, 8-9=-56/1118

WEBS 4-9=-57/368, 5-9=-264/164, 4-11=-57/368,

3-11=-264/164

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 12 and 99 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

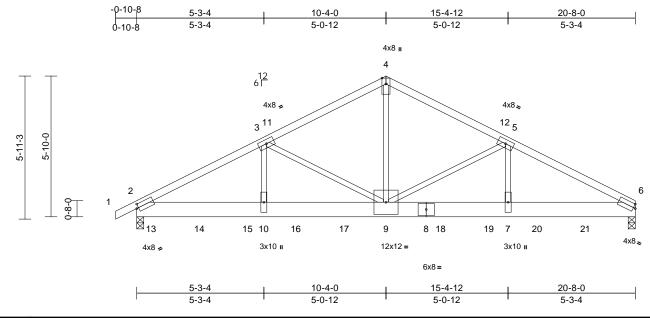
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	A3	Common Girder	1	2	Job Reference (optional)	165090779

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:19 ID:BgsuH88v5XU?uBVTBuFbCwzNv1E-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:47.8

Plate Offsets (X, Y): [2:0-1-0,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.11	7-9	>999	360	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.20	7-9	>999	240		
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.04	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	7-9	>999	240		
BCDL	10.0			1		` ′					Weight: 216 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No 2 **BOT CHORD** 2x8 SP 2400F 2.0E **WEBS** 2x3 SPF No.2

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

3-9-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 6=0-3-8

Max Horiz 2=92 (LC 38)

Max Uplift 2=-556 (LC 12), 6=-623 (LC 13)

Max Grav 2=5816 (LC 26), 6=5074 (LC 27) (lb) - Maximum Compression/Maximum

Tension

1-2=0/16, 2-3=-8367/950, 3-4=-5850/785, TOP CHORD

4-5=-5849/785, 5-6=-8502/1051 **BOT CHORD**

2-10=-852/7323, 9-10=-852/7323, 7-9=-859/7395, 6-7=-859/7395

5-9=-2554/388, 5-7=-216/2458,

4-9=-607/4897, 3-10=-123/2324,

3-9=-2419/284

NOTES

WEBS

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-6-0 OC.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B). unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP 2400F 2.0E.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 lb uplift at joint 6 and 556 lb uplift at joint 2.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1026 lb down and 36 lb up at 0-7-4, 1021 lb down and 40 lb up at 2-7-4, 1021 lb down and 40 lb up at 4-7-4, 784 lb down and 136 lb up at 6-7-4, 784 lb down and 136 lb up at 8-7-4, 702 lb down and 141 lb up at 10-7-4, 997 lb down and 119 lb up at 12-7-4, 997 lb down and 119 lb up at 14-7-4, and 997 lb down and 119 lb up at 16-7-4, and 997 lb down and 119 lb up at 18-7-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (lb/ft)

Vert: 1-4=-51, 4-6=-51, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-524 (F), 13=-705 (F), 14=-700 (F), 15=-700 (F), 16=-503 (F), 17=-503 (F), 18=-384 (F), 19=-384 (F), 20=-384 (F), 21=-384 (F)

OF MISS SCOTT M. **SEVIER** WESSIONAL . PE-2001018807 April 24,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B1	Common Supported Gable	1	1	Job Reference (optional)	165090780

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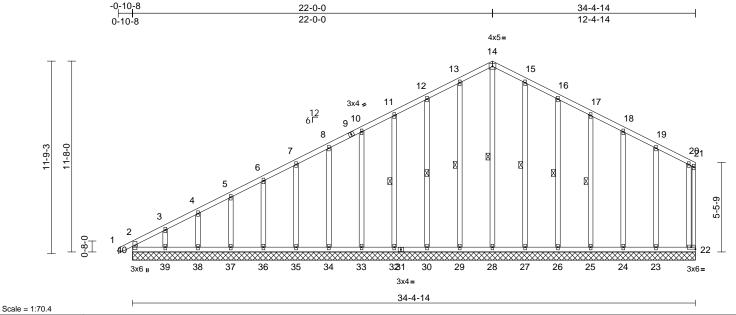


Plate Offsets (X, Y): [22:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	22	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 218 lb	FT = 10%

LUMBER	
TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x4 SPF No.2 *Except* 21-22:2x3 SPF No.2
OTHERS	2x4 SPF No.2

BRACING TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing WFBS 1 Row at midpt

14-28, 13-29, 12-30, 11-32, 15-27, 16-26, 17-25

REACTIONS (size) 22=34-4-14, 23=34-4-14, 24=34-4-14, 25=34-4-14, 26=34-4-14, 27=34-4-14, 28=34-4-14, 29=34-4-14, 30=34-4-14, 32=34-4-14, 33=34-4-14, 34=34-4-14, 35=34-4-14, 36=34-4-14, 37=34-4-14, 38=34-4-14, 39=34-4-14, 40=34-4-14 Max Horiz 40=304 (LC 5) Max Uplift 22=-27 (LC 8), 23=-56 (LC 9),

24=-55 (LC 9), 25=-53 (LC 9), 26=-59 (LC 9), 27=-47 (LC 9), 28=-9 (LC 20), 29=-48 (LC 8), 30=-58 (LC 8), 32=-53 (LC 8), 33=-54 (LC 8), 34=-54 (LC 8), 35=-54 (LC 8), 36=-53 (LC 8), 37=-59 (LC 8), 38=-34 (LC 8), 39=-140 (LC 8), 40=-70 (LC 4) 22=101 (LC 1), 23=198 (LC 22), 24=176 (LC 1), 25=181 (LC 1), 26=179 (LC 22), 27=189 (LC 22), 28=204 (LC 15), 29=189 (LC 21), 30=179 (LC 21), 32=180 (LC 1), 33=180 (LC 21), 34=180 (LC 1), 35=180 (LC 21), 36=180 (LC 1), 37=179 (LC 21), 38=184 (LC 1), 39=172 (LC 15), 40=235 (LC 16)

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-40=-197/70, 14-15=-86/223,

15-16=-86/195, 16-17=-86/166, 17-18=-86/138, 18-19=-86/110, 19-20=-91/85, 20-21=-109/87, 21-22=-100/82, 1-2=0/32, 2-3=-285/129, 3-4=-228/120, 4-5=-211/122, 5-6=-196/134 6-7=-181/148, 7-8=-166/161, 8-10=-151/175,

10-11=-137/189, 11-12=-122/202, 12-13=-108/217. 13-14=-91/231 **BOT CHORD** 39-40=-78/60, 38-39=-78/60, 37-38=-78/60, 36-37=-78/60, 35-36=-78/60, 34-35=-78/60, 33-34=-78/60, 32-33=-78/60, 30-32=-78/60, 29-30=-78/60, 28-29=-78/60, 27-28=-78/60,

26-27=-78/60, 25-26=-78/60, 24-25=-78/60, 23-24=-78/60, 22-23=-78/60 **WEBS** 14-28=-171/42, 13-29=-149/72 12-30=-139/82, 11-32=-140/77

10-33=-140/78, 8-34=-140/78, 7-35=-140/78, 6-36=-140/77, 5-37=-139/81, 4-38=-143/67, 3-39=-126/126, 15-27=-149/71,

16-26=-139/82, 17-25=-141/78, 18-24=-138/74, 19-23=-152/98, 20-22=-90/51

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.



April 24,2024

ontinued on page 2

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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B1	Common Supported Gable	1	1	Job Reference (optional)	165090780

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:19 Page: 2

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 40, 27 lb uplift at joint 22, 9 lb uplift at joint 28, 48 lb uplift at joint 29, 58 lb uplift at joint 30, 53 lb uplift at joint 32, 54 lb uplift at joint 33, 54 lb uplift at joint 34, 54 lb uplift at joint 35, 53 lb uplift at joint 36, 59 lb uplift at joint 37, 34 lb uplift at joint 38, 140 lb uplift at joint 39, 47 lb uplift at joint 27, 59 lb uplift at joint 26, 53 lb uplift at joint 25, 55 Ib uplift at joint 24 and 56 lb uplift at joint 23.

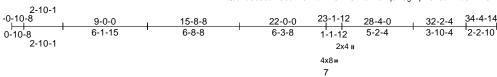
12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B2	Roof Special	2	1	Job Reference (optional)	165090781

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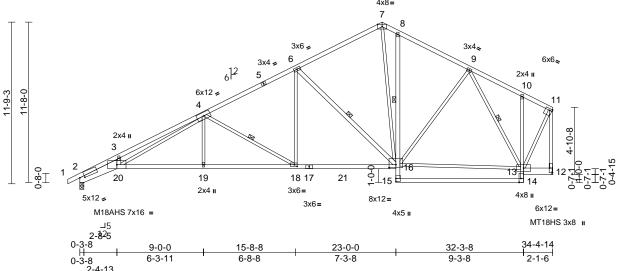


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [11:0-2-0,0-1-8], [12:Edge,0-2-8], [14:0-3-8,Edge], [16:0-6-0,0-2-8], [18:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.41	19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.72	19-20	>569	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.32	12	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.31	19-20	>999	240	Weight: 178 lb	FT = 10%

LUMBER

Scale = 1:83.8

2x4 SPF No.2 *Except* 1-5:2x4 SPF 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 2-20:2x8 SP 2400F 2.0E, 20-17:2x4 SPF 2100F 1.8E, 14-10:2x3

SPF No.2, 13-12:2x6 SPF No.2

WFBS 2x3 SPF No.2 *Except* 16-6:2x4 SPF No.2, 20-3:2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

1 Row at midpt 8-16 WEBS

1 Row at midpt 4-18, 6-16, 9-13 REACTIONS (size) 2=0-3-8, 12= Mechanical

Max Horiz 2=285 (LC 5)

Max Uplift 2=-238 (LC 8), 12=-152 (LC 9) Max Grav 2=1665 (LC 2), 12=1605 (LC 2)

FORCES Tension

TOP CHORD

(lb) - Maximum Compression/Maximum

1-2=0/14, 2-3=-6324/1094, 3-4=-5737/1143, 4-6=-2288/347, 6-7=-1371/260,

7-8=-1384/302, 8-9=-1469/293, 9-10=-687/157, 10-11=-672/119,

11-12=-1558/158

BOT CHORD 2-20=-1181/5694, 19-20=-515/2896

18-19=-515/2895, 16-18=-257/1976,

15-16=0/187, 8-16=-238/138, 14-15=0/165, 13-14=0/175, 10-13=-199/121, 12-13=-64/50

WEBS 4-20=-699/2657, 4-19=0/289,

4-18=-1060/298, 6-18=-51/831 6-16=-1129/296, 13-16=-161/897,

9-16=-2/392, 9-13=-1026/134,

11-13=-124/1347, 7-16=-182/938, 3-20=0/735

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 238 lb uplift at joint 2 and 152 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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NOTES



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B3	Roof Special	2	1	Job Reference (optional)	165090782

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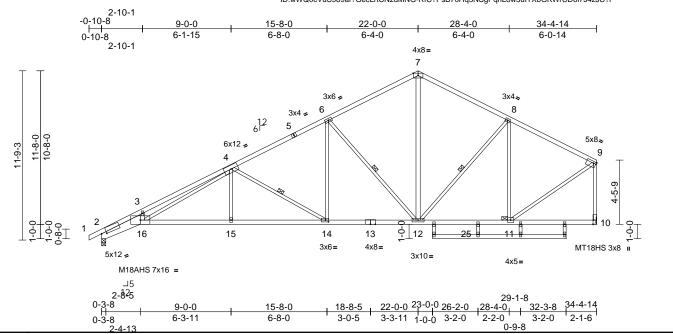


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [9:0-2-0,0-1-8], [10:0-3-8,Edge], [14:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.41	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.71	15-16	>574	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.30	10	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	15-16	>999	240	Weight: 166 lb	FT = 10%

LUMBER

Scale = 1:80.1

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x4 SPF 2400F

2.0E

BOT CHORD 2x3 SPF No.2 *Except* 2-16:2x8 SP 2400F 2.0E, 16-13:2x4 SPF 2100F 1.8E,

18-19,13-10:2x4 SPF No.2

WFBS 2x3 SPF No.2 *Except* 16-3,12-7:2x4 SPF

No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 4-14, 6-12, 8-12

JOINTS 1 Brace at Jt(s): 11

REACTIONS (size) 2=0-3-8, 10= Mechanical

Max Horiz 2=229 (LC 5)

Max Uplift 2=-42 (LC 8) Max Grav 2=1672 (LC 2), 10=1636 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 7-8=-1511/123, 8-9=-1381/60,

9-10=-1550/24, 1-2=0/14, 2-3=-6457/291,

3-4=-5863/375, 4-6=-2296/98, 6-7=-1508/108

BOT CHORD 2-16=-387/5836, 15-16=-136/2977, 14-15=-135/2977, 12-14=-33/2019,

11-12=0/1179, 10-11=-44/38

3-16=0/745, 4-16=-284/2716, 4-15=0/306,

4-14=-1106/118, 6-14=0/791, 6-12=-1085/130, 8-12=-69/262

8-11=-635/70, 9-11=0/1423, 7-12=-25/937

NOTES

WEBS

1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



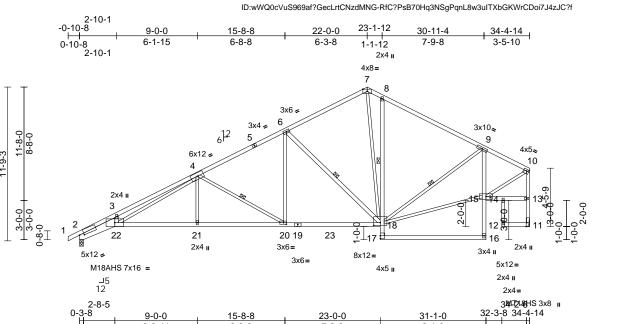
Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B4	Roof Special	1	1	Job Reference (optional)	165090783

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:19
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8-1-0

0-2-8

1-2-8



7-3-8

Plate Offsets (X, Y): [2:0-4-3,0-1-5], [10:0-2-0,0-1-8], [11:0-3-8,Edge], [18:0-6-0,0-2-8], [20:0-2-8,0-1-8]

0 - 3 - 8

6-3-11

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.41	21-22	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.72	21-22	>569	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.36	11	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.22	21-22	>999	240	Weight: 175 lb	FT = 10%

6-8-8

LUMBER

Scale = 1:88.1

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x4 SPF 2400F

2.0E

BOT CHORD 2x4 SPF No.2 *Except* 2-22:2x8 SP 2400F 2.0E, 22-19:2x4 SPF 2100F 1.8E, 14-12:2x3

SPF No.2

WEBS 2x3 SPF No.2 *Except* 22-3,18-6:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied, except end verticals.

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

1 Row at midpt 8-18 WEBS 1 Row at n

WEBS 1 Row at midpt 4-20, 6-18, 9-18 **REACTIONS** (size) 2=0-3-8, 11= Mechanical

Max Horiz 2=229 (LC 5)

Max Uplift 2=-42 (LC 8)

Max Grav 2=1666 (LC 2), 11=1633 (LC 2)

FORCES (Ib) - Maximum Compression/Maximum

Tension
TOP CHORD 1-2=0/14, 2-3=-6438/289, 3-4=-5845/373,

4-6=-2289/95, 6-7=-1375/103,

7-8=-1465/136, 8-9=-1527/110, 9-10=-1473/24, 11-13=-1595/10,

10-13=-1533/18

BOT CHORD 2-22=-385/5819, 21-22=-137/2959,

20-21=-137/2958, 18-20=-30/2011, 17-18=0/159, 8-18=-486/168, 16-17=0/49, 15-16=0/153, 9-15=-400/78, 14-15=-75/64,

13-14=-67/57, 12-14=0/35, 11-12=-8/8 WEBS 3-22=0/744, 4-22=-280/2718, 4-21=0/290,

4-20=-1092/123, 6-20=0/841, 6-18=-1155/121, 15-18=-55/1313, 9-18=-193/106, 10-15=-6/1530,

7-18=-114/1081

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) All bearings are assumed to be SPF No.2.
- 7) Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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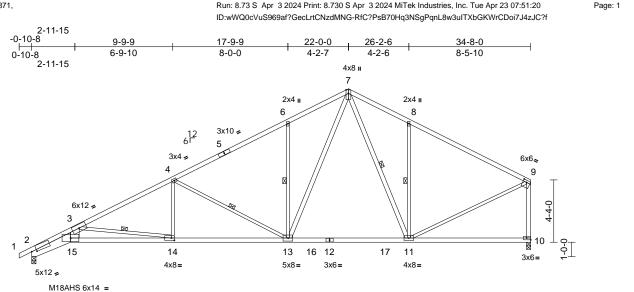
Α



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B5	Roof Special	3	1	Job Reference (optional)	165090784

11-9-3

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17-9-9 9-9-9 26-2-6 34-8-0 7-1-4 8-0-0 8-4-13 8-5-10

Plate Offsets (X, Y): [2:0-4-3,0-1-5], [9:Edge,0-1-12], [10:Edge,0-1-8], [14:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.38	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.68	14-15	>610	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.28	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	14-15	>999	240	Weight: 159 lb	FT = 10%

LUMBER

BOT CHORD

Scale = 1:80

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF

No.2

2x8 SP 2400F 2 0F *Except* 15-12:2x4 SPF 2100F 1.8E, 12-10:2x4 SPF No.2

2x3 SPF No.2 *Except* 15-3:2x8 SP 2400F WEBS

2.0E, 13-7,11-7,10-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-1 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

7-6-1 oc bracing: 14-15.

WEBS 1 Row at midpt 3-14, 4-13, 6-13, 7-11, 8-11

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=277 (LC 5)

Max Uplift 2=-239 (LC 8), 10=-153 (LC 9)

Max Grav 2=1677 (LC 2), 10=1638 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/14, 2-3=-7072/1241, 3-4=-3154/457,

> 4-6=-2085/318, 6-7=-2047/456, 7-8=-1577/320. 8-9=-1589/234.

9-10=-1515/194

BOT CHORD 2-15=-1333/6439, 14-15=-1095/5068,

13-14=-496/2803, 11-13=-72/1273,

10-11=-50/62

3-15=-429/2596, 3-14=-2282/603,

4-14=0/536, 4-13=-1163/333, 6-13=-463/264,

7-13=-346/1342, 7-11=-190/348,

8-11=-558/316, 9-11=-111/1426

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 239 lb uplift at joint 2 and 153 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B6	Roof Special	1	1	Job Reference (optional)	165090785

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:20 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

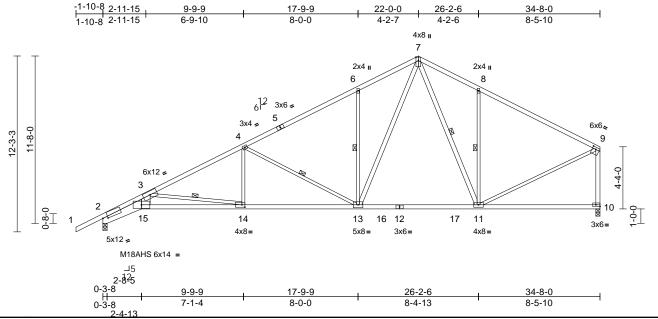


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [9:Edge,0-1-12], [10:Edge,0-1-8], [14:0-2-8,0-2-0]

-							-					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.37	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.67	14-15	>620	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	14-15	>999	240	Weight: 160 lb	FT = 10%

LUMBER

Scale = 1:80.3

2x4 SPF 2100F 1.8E *Except* 5-7:2x4 SPF TOP CHORD

No.2

BOT CHORD 2x8 SP 2400F 2.0E *Except* 15-12:2x4 SPF 2100F 1.8E, 12-10:2x4 SPF No.2

2x3 SPF No.2 *Except* 15-3:2x8 SP 2400F WEBS 2.0E, 13-7,11-7,10-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-5-12 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing, Except:

7-8-0 oc bracing: 14-15.

WEBS 1 Row at midpt 3-14, 4-13, 6-13, 7-11, 8-11

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=286 (LC 5)

Max Uplift 2=-263 (LC 8), 10=-153 (LC 9)

Max Grav 2=1737 (LC 2), 10=1635 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=0/46, 2-3=-6929/1171, 3-4=-3138/449, TOP CHORD

4-6=-2080/315, 6-7=-2042/453,

7-8=-1574/319. 8-9=-1586/233.

9-10=-1513/194

BOT CHORD 2-15=-1264/6310, 14-15=-1049/4984,

13-14=-489/2790, 11-13=-70/1270,

10-11=-50/62

3-15=-389/2522, 3-14=-2210/564,

4-14=0/527, 4-13=-1153/328, 6-13=-463/264, 7-13=-344/1337, 7-11=-190/349,

8-11=-558/316, 9-11=-109/1423

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 153 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B7	Roof Special	1	1	Job Reference (optional)	165090786

9-9-9

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:20 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

26-2-6

22-0-0

Page: 1

30-3-8

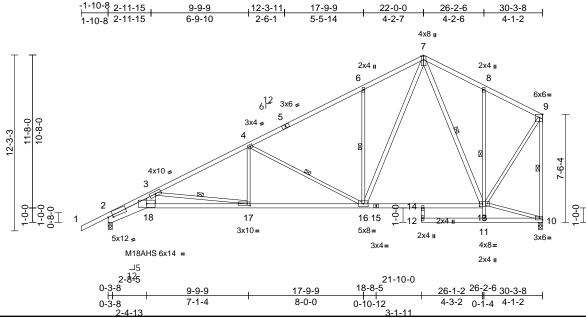


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [9:0-2-8,Edge], [13:0-2-4,0-2-0], [17:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.29	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.56	17-18	>639	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.26	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	17-18	>999	240	Weight: 159 lb	FT = 10%

LUMBER

Scale = 1:80.3

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 2-18:2x8 SP 2400F BOT CHORD

2.0E. 18-15:2x4 SPF 2100F 1.8E. 14-12:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 18-3:2x8 SP 2400F

2.0E, 16-7,13-7:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-0-1 oc bracing: 17-18 6-0-0 oc bracing: 11-12.

WEBS 3-17, 7-13, 9-10, 4-16, 1 Row at midpt

6-16, 8-11

REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=367 (LC 7)

Max Uplift 2=-241 (LC 8), 10=-166 (LC 8)

Max Grav 2=1498 (LC 1), 10=1347 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/46, 2-3=-5696/1059, 3-4=-2502/391,

TOP CHORD 4-6=-1510/260, 6-7=-1467/401,

7-8=-736/225, 8-9=-702/175, 9-10=-1315/177

2-18=-1152/5117, 17-18=-962/4091, 16-17=-422/2188, 14-16=-102/768,

13-14=-91/750, 12-14=0/45, 11-12=-16/18,

10-11=-7/35

WEBS 3-18=-341/1960, 3-17=-1918/544,

7-16=-333/1231, 7-13=-516/101, 4-17=0/466,

4-16=-1083/321, 6-16=-469/265,

11-13=0/242, 8-13=-337/202, 10-13=-112/73,

9-13=-98/1083

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for 1) this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 2 and 166 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B8	Roof Special	2	1	Job Reference (optional)	165090787

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:20 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

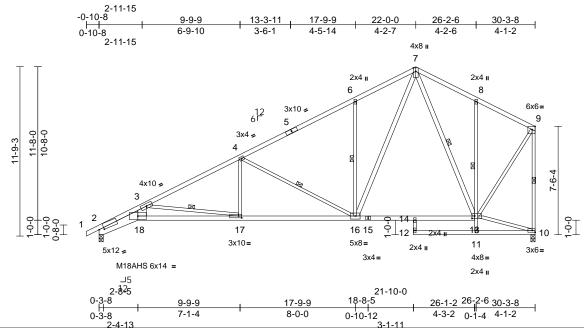


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [9:0-2-8,Edge], [13:0-2-4,0-2-0], [17:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.30	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.58	17-18	>623	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.27	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	17-18	>999	240	Weight: 158 lb	FT = 10%

LUMBER

Scale = 1:80

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 2-18:2x8 SP 2400F

2.0E. 18-15:2x4 SPF 2100F 1.8E. 14-12:2x3

SPF No.2

WEBS 2x3 SPF No.2 *Except* 18-3:2x8 SP 2400F

2.0E, 16-7,13-7:2x4 SPF No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 2-1-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

7-9-13 oc bracing: 17-18

6-0-0 oc bracing: 11-12.

1 Row at midpt 3-17, 4-16, 6-16, 7-13, 8-11, 9-10

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=357 (LC 7)

Max Uplift 2=-217 (LC 8), 10=-167 (LC 8)

Max Grav 2=1425 (LC 1), 10=1351 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES**

Tension TOP CHORD

1-2=0/14, 2-3=-5867/1128, 3-4=-2521/398,

4-6=-1516/262, 6-7=-1472/403,

7-8=-738/226, 8-9=-704/176, 9-10=-1318/178 **BOT CHORD**

2-18=-1220/5287, 17-18=-1007/4202,

16-17=-429/2205, 14-16=-103/771, 13-14=-92/753, 12-14=0/45, 11-12=-16/18,

10-11=-7/35

WEBS 3-18=-381/2059, 3-17=-2012/582,

4-17=0/470, 4-16=-1098/327, 6-16=-469/265,

7-16=-336/1237, 7-13=-519/102,

11-13=0/242, 8-13=-337/202, 9-13=-98/1086,

10-13=-112/73

NOTES

Unbalanced roof live loads have been considered for 1) this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 217 lb uplift at joint 2 and 167 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

Page: 1



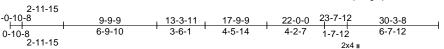
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B9	Roof Special	1	1	Job Reference (optional)	165090788

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:20 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



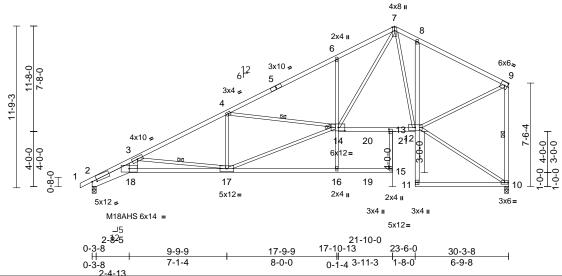


Plate Offsets (X, Y): [2:0-4-3,0-1-5], [13:0-2-0,0-0-8], [14:0-5-12,0-3-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)		17-18			_	197/144
TCDL		Lumber DOL	1.15	вс	0.77	Vert(CT)					M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.40	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	17-18	>999	240	Weight: 162 lb	FT = 10%

LUMBER

Scale = 1:83.8

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 2-18:2x8 SP 2400F **BOT CHORD**

2.0E, 18-15:2x4 SPF 2100F 1.8E, 15-13:2x3

SPF No.2

2x3 SPF No.2 *Except* 18-3:2x8 SP 2400F WEBS

2.0E, 10-9:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

7-9-12 oc bracing: 17-18.

WEBS 1 Row at midpt 3-17, 4-14, 9-10

1 Brace at Jt(s): 14 **JOINTS**

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=358 (LC 7)

Max Uplift 2=-216 (LC 8), 10=-167 (LC 8)

Max Grav 2=1486 (LC 2), 10=1469 (LC 2) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD

1-2=0/14, 2-3=-6213/1130, 3-4=-2677/396,

4-6=-2421/349. 6-7=-2379/483.

7-8=-1416/274, 8-9=-1417/227, 9-10=-1364/192

BOT CHORD 2-18=-1223/5711, 17-18=-1008/4502,

16-17=-2/44, 15-16=-5/31, 13-15=0/66, 13-14=-140/1215, 12-13=-142/1246,

11-12=0/131, 8-12=-446/260, 10-11=0/13

3-18=-383/2295, 3-17=-2122/585,

4-17=-393/184, 4-14=-382/212, 14-16=0/275, 6-14=-463/264, 7-14=-410/1793,

7-12=-188/234, 10-12=-123/88, 14-17=-453/2508, 9-12=-125/1340

NOTES

WEBS

Unbalanced roof live loads have been considered for 1) this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2 and 167 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B10	Common	1	1	Job Reference (optional)	165090789

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:20 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

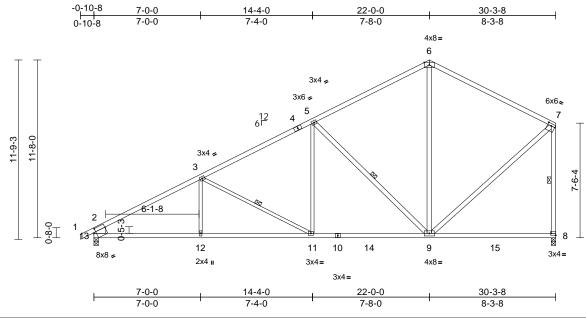


Plate Offsets (X, Y): [7:Edge,0-1-12], [8:Edge,0-1-8], [13:0-1-13,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.19	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.36	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	11-12	>999	240	Weight: 136 lb	FT = 10%

LUMBER

Scale = 1:75.6

2x4 SPF 2100F 1.8E *Except* 4-6:2x4 SPF TOP CHORD

No.2

BOT CHORD 2x4 SPF 2100F 1.8E *Except* 10-8:2x4 SPF

No.2

WEBS 2x4 SPF No.2 *Except* 3-12,11-3,5-11:2x3

SPF No.2, 13-2:2x10 SP 2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 3-11, 5-9, 7-8 1 Row at midpt

REACTIONS (size) 8=0-3-8, 13=0-3-8

Max Horiz 13=366 (LC 5)

Max Uplift 8=-166 (LC 8), 13=-219 (LC 8)

Max Grav 8=1458 (LC 2), 13=1480 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/39, 2-3=-2248/307, 3-5=-1712/275, TOP CHORD

5-6=-982/217, 6-7=-976/244, 7-8=-1291/213,

2-13=-1310/253

BOT CHORD 12-13=-393/1934. 11-12=-393/1934.

9-11=-223/1513, 8-9=-94/75

WFBS 3-12=0/238, 3-11=-476/191, 5-11=-1/546, 5-9=-990/302, 6-9=-42/416, 7-9=-105/1024

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 13 SPF 2100F 1.8E, Joint 8 SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 13 and 166 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

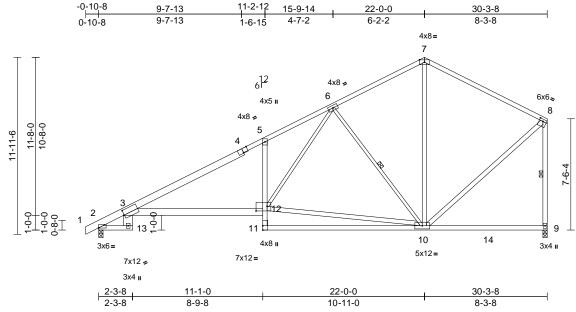
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B11	Roof Special	1	1	Job Reference (optional)	165090790

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:77.8

Plate Offsets (X, Y): [2:Edge,0-0-3], [3:0-0-8,0-4-0], [4:0-4-0,Edge], [8:Edge,0-1-12], [12:0-9-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.41	3-12	>883	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.73	3-12	>491	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.37	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.34	3-12	>999	240	Weight: 169 lb	FT = 20%

LUMBER

2x4 SPF 2100F 1.8E *Except* 1-4:2x6 SP TOP CHORD

2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 13-3:2x8 SP 2400F 2.0E, 3-12:2x6 SP 2400F 2.0E, 11-9:2x4 SPF

2100F 1.8E

WFBS 2x4 SPF No.2 *Except* 12-6,10-6:2x3 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-12 oc purlins. except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

> bracing, Except: 6-0-0 oc bracing: 2-13.

WFBS 6-10.8-9 1 Row at midpt

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=359 (LC 5) Max Uplift 2=-212 (LC 8), 9=-168 (LC 8)

Max Grav 2=1462 (LC 2), 9=1441 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/12, 2-3=-988/24, 3-5=-2544/384, 5-6=-2491/526, 6-7=-953/221, 7-8=-977/241,

8-9=-1289/208

BOT CHORD 2-13=-6/0, 3-13=-4/95, 3-12=-413/2295

11-12=0/193, 5-12=-626/304, 10-11=0/100,

9-10=-97/74

WEBS 10-12=-235/1309, 6-12=-321/1457,

6-10=-1003/350, 7-10=-58/437,

8-10=-99/1025

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SPF No.2, Joint 9 SPF 2100F 1.8E .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 168 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

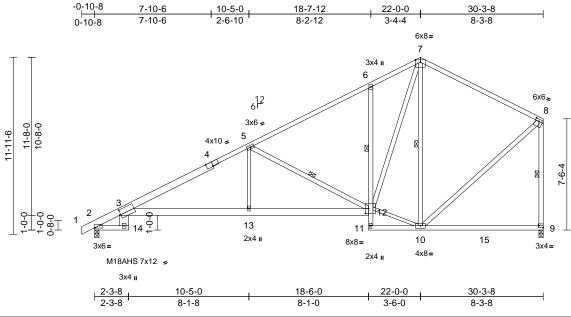
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B12	Roof Special	1	1	Job Reference (optional)	l65090791

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:77.8

Plate Offsets (X, Y): [2:Edge,0-0-3], [3:0-1-0,0-4-0], [4:0-5-0,Edge], [8:Edge,0-1-12], [9:Edge,0-1-8], [12:0-2-8,0-4-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.32	3-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.57	3-13	>629	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.33	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.28	3-13	>999	240	Weight: 181 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 1-4:2x6 SP

2400F 2.0E

2x4 SPF No.2 *Except* 14-3:2x8 SP 2400F

2.0E. 3-12:2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except* 5-13,10-12:2x3 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. Except:

6-12 1 Row at midpt

WEBS 1 Row at midpt 5-12, 7-10, 8-9

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=359 (LC 5)

Max Uplift 2=-212 (LC 8), 9=-168 (LC 8)

Max Grav 2=1462 (LC 2), 9=1441 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-988/24, 3-5=-2603/386, 5-6=-1430/260, 6-7=-1333/379,

7-8=-960/245. 8-9=-1275/216

BOT CHORD 2-14=-6/0, 3-14=-4/95, 3-13=-429/2353,

12-13=-429/2353, 11-12=-21/2,

6-12=-407/235, 10-11=-55/89, 9-10=-93/76

5-13=0/512, 5-12=-1304/351, 10-12=-38/789,

7-12=-353/1286, 7-10=-685/143,

8-10=-103/1000

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 168 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B13	Roof Special	2	1	Job Reference (optional)	165090792

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

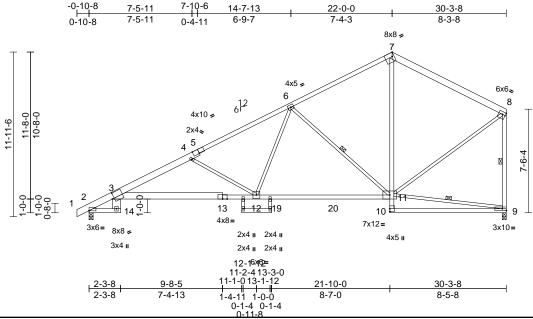


Plate Offsets (X, Y): [2:Edge,0-0-3], [3:0-1-12,0-4-12], [5:0-5-0,Edge], [7:0-1-12,Edge], [8:Edge,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.36	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.63	11-12	>576	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.31	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	3-12	>999	240	Weight: 157 lb	FT = 20%

LUMBER

Scale = 1:83.6

2x6 SP 2400F 2.0E *Except* 7-8:2x6 SPF TOP CHORD

No.2, 5-7:2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 14-3:2x8 SP 2400F

2.0E, 3-13:2x6 SPF No.2, 13-11:2x4 SPF

2100F 1.8E

2x3 SPF No.2 *Except* 9-8:2x4 SPF No.2 WFBS

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

WFBS 8-9, 9-11, 6-11 1 Row at midpt

REACTIONS (size) 2=0-3-8, 9=0-3-8

Max Horiz 2=356 (LC 5)

Max Uplift 2=-212 (LC 8), 9=-168 (LC 8) Max Grav 2=1488 (LC 2), 9=1419 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-1002/24, 3-4=-2882/511,

4-6=-2297/353, 6-7=-1053/224, 7-8=-1037/250, 8-9=-1285/209

BOT CHORD 2-14=-6/0, 3-14=-4/96, 3-12=-601/2697,

11-12=-258/1680, 10-11=0/170, 7-11=-50/473, 9-10=-21/26

WFBS 9-11=-108/76, 6-11=-1065/331, 6-12=-66/935,

4-12=-864/372, 8-11=-105/1061

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 2 and 168 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



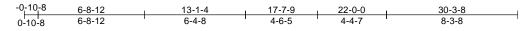
April 24,2024

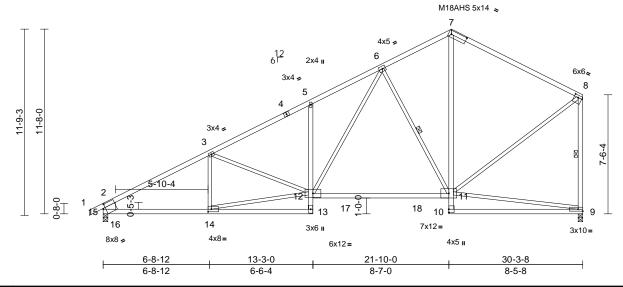




Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B14	Roof Special	1	1	Job Reference (optional)	165090793

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:72.8

Plate Offsets (X, Y): [7:0-11-12,0-2-12], [8:Edge,0-1-12], [14:0-2-8,0-2-0], [15:0-1-13,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.34	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.59	11-12	>601	240	M18AHS	142/136
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	13-14	>999	240	Weight: 147 lb	FT = 10%

ш	IM	IR	F	R

BOT CHORD

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 4-7:2x4 SPF

No.2

2x4 SPF No.2 *Except* 15-13,12-11:2x4 SPF

2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 15-2:2x10 SP 2400F

2.0E, 9-8:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 6-11, 8-9 1 Row at midpt REACTIONS (size) 9=0-3-8, 15=0-3-8

Max Horiz 15=366 (LC 5)

Max Uplift 9=-166 (LC 8), 15=-219 (LC 8) Max Grav 9=1414 (LC 2), 15=1473 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-2240/306, 3-5=-2062/325,

5-6=-2088/441, 6-7=-998/240, 7-8=-1053/247, 2-15=-1308/249,

8-9=-1285/209

BOT CHORD 14-15=-395/1927, 13-14=-47/103,

12-13=0/133, 5-12=-432/211,

11-12=-152/1286, 10-11=0/170,

7-11=-98/546, 9-10=-52/22

3-14=-222/147, 12-14=-352/1899,

3-12=-150/124, 6-11=-862/302, 8-11=-101/1051, 9-11=-111/99,

6-12=-263/1155

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 7 = 0%4)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 15 and 166 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



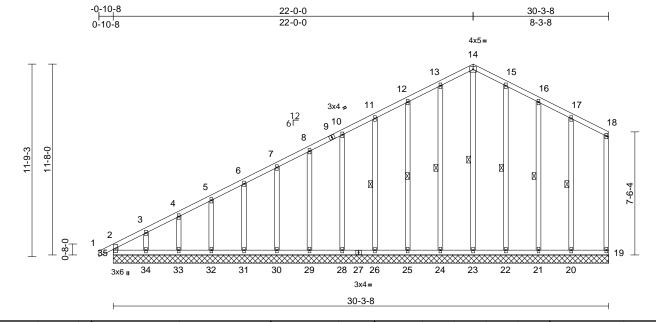
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	B15	Common Supported Gable	1	1	Job Reference (optional)	I65090794

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	-0.01	19	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 191 lb	FT = 10%

LUMBER			
TOP CHORD	2x4 SPF	No.2	
BOT CHORD	2x4 SPF	No.2	
WEBS	2x4 SPF	No.2	
OTHERS	2x4 SPF	No.2	
BRACING			
TOP CHORD	Structura	al wood sl	neathing directly applied or
	6-0-0 oc	purlins,	except end verticals.
BOT CHORD	Rigid cei	ling direc	tly applied or 10-0-0 oc
	bracing.		
WEBS	1 Row at	midpt	14-23, 13-24, 12-25,
			11-26, 15-22, 16-21,
			17-20
REACTIONS	(size)	19=30-3	3-8, 20=30-3-8, 21=30-3-8
		22=30-3	3-8, 23=30-3-8, 24=30-3-8

25=30-3-8, 26=30-3-8, 28=30-3-8, 29=30-3-8, 30=30-3-8, 31=30-3-8, 32=30-3-8, 33=30-3-8, 34=30-3-8, 35=30-3-8 Max Horiz 35=364 (LC 5) Max Uplift 19=-42 (LC 4), 20=-57 (LC 9),

21=-58 (LC 9), 22=-51 (LC 9), 23=-34 (LC 7), 24=-50 (LC 8), 25=-57 (LC 8), 26=-53 (LC 8), 28=-54 (LC 8), 29=-54 (LC 8), 30=-54 (LC 8), 31=-53 (LC 8), 32=-60 (LC 8), 33=-31 (LC 8), 34=-150 (LC 8), 35=-49 (LC 4) Max Grav

19=105 (LC 16), 20=206 (LC 22) 21=173 (LC 22), 22=190 (LC 22), 23=195 (LC 15), 24=189 (LC 21), 25=179 (LC 21), 26=180 (LC 1), 28=180 (LC 21), 29=180 (LC 1), 30=180 (LC 21), 31=180 (LC 1), 32=179 (LC 21), 33=184 (LC 1), 34=168 (LC 15), 35=254 (LC 16)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-35=-213/52, 1-2=0/32, 2-3=-331/110, 3-4=-278/103, 4-5=-256/105, 5-6=-233/105 6-7=-218/118, 7-8=-204/132, 8-10=-189/145, 10-11=-174/159, 11-12=-159/172, 12-13=-145/187, 13-14=-128/196, 14-15=-122/190, 15-16=-124/165, 16-17=-118/134, 17-18=-139/119, 18-19=-118/84 **BOT CHORD** 34-35=-104/79, 33-34=-104/79, 32-33=-104/79, 31-32=-104/79, 30-31=-104/79, 29-30=-104/79, 28-29=-104/79, 26-28=-104/79,

25-26=-104/79, 24-25=-104/79, 23-24=-104/79, 22-23=-104/79, 21-22=-104/79, 20-21=-104/79, 19-20=-104/79 14-23=-155/73, 13-24=-149/74, 12-25=-139/81, 11-26=-140/77 10-28=-140/78, 8-29=-140/78, 7-30=-140/78, 6-31=-140/77, 5-32=-139/81, 4-33=-143/66, 3-34=-126/132, 15-22=-150/77

NOTES

WEBS

Unbalanced roof live loads have been considered for 1) this design

16-21=-135/73, 17-20=-160/112

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 6) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 35, 42 lb uplift at joint 19, 34 lb uplift at joint 23, 50 lb uplift at joint 24, 57 lb uplift at joint 25, 53 lb uplift at joint 26, 54 lb uplift at joint 28, 54 lb uplift at joint 29, 54 lb uplift at joint 30, 53 lb uplift at joint 31, 60 lb uplift at joint 32, 31 lb uplift at joint 33, 150 lb uplift at joint 34, 51 lb uplift at joint 22, 58 lb uplift at joint 21 and 57 lb uplift at ioint 20.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

FORCES

Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	C1	Common Supported Gable	1	1	Job Reference (optional)	165090795

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

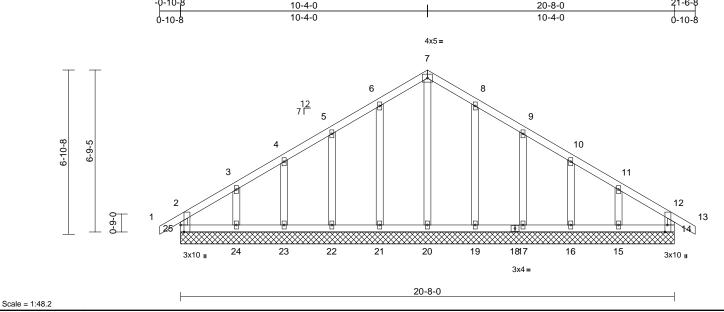


Plate Offsets (X, Y): [14:0-3-8,Edge], [25:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 91 lb	FT = 10%

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x4 SPF No.2 WEBS 2x4 SPF No.2 **OTHERS**

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 14=20-8-0, 15=20-8-0, 16=20-8-0, 17=20-8-0, 19=20-8-0, 20=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0,

24=20-8-0, 25=20-8-0

Max Horiz 25=191 (LC 7)

Max Uplift 14=-21 (LC 8), 15=-96 (LC 9), 16=-51 (LC 9), 17=-66 (LC 9), 19=-60 (LC 9), 21=-61 (LC 8), 22=-66 (LC 8), 23=-49 (LC 8),

24=-103 (LC 8), 25=-48 (LC 4) 14=178 (LC 1), 15=214 (LC 16)

16=179 (LC 1), 17=185 (LC 16), 19=193 (LC 16), 20=191 (LC 18), 21=194 (LC 15), 22=185 (LC 15), 23=179 (LC 1), 24=225 (LC 15),

25=188 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 2-25=-158/47. 1-2=0/36. 2-3=-128/115. 3-4=-100/93, 4-5=-91/123, 5-6=-79/155, 6-7=-69/184, 7-8=-58/174, 8-9=-46/133,

> 9-10=-59/101, 10-11=-69/70, 11-12=-91/69, 12-13=0/36, 12-14=-157/33

BOT CHORD 24-25=-74/93, 23-24=-74/93, 22-23=-74/93,

21-22=-74/93, 20-21=-74/93, 19-20=-74/93, 17-19=-74/93, 16-17=-74/93, 15-16=-74/93,

14-15=-74/93

WEBS

7-20=-151/0, 6-21=-154/85, 5-22=-144/89 4-23=-140/78, 3-24=-166/113, 8-19=-153/84, 9-17=-144/89, 10-16=-141/79,

11-15=-160/108

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

All plates are 2x4 MT20 unless otherwise indicated.

Gable requires continuous bottom chord bearing.

Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).

Gable studs spaced at 2-0-0 oc.

This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

10) All bearings are assumed to be SPF No.2.

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 25, 21 lb uplift at joint 14, 61 lb uplift at joint 21, 66 lb uplift at joint 22, 49 lb uplift at joint 23, 103 lb uplift at joint 24, 60 lb uplift at joint 19, 66 lb uplift at joint 17, 51 lb uplift at joint 16 and 96 lb uplift at joint 15.

12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

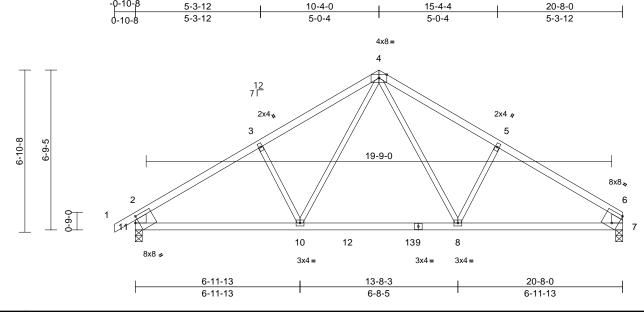
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	C2	Common	5	1	Job Reference (optional)	165090796

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:21 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:48.9

Plate Offsets (X, Y): [6:Edge,0-5-11], [11:0-1-11,0-2-15]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.19	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.31	8-10	>777	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	8-10	>999	240	Weight: 72 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 11-2,7-6:2x6 SP

2400F 2.0E

BRACING

WEBS

Structural wood sheathing directly applied or TOP CHORD

3-8-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing

REACTIONS (size) 7=0-3-8, 11=0-3-8

Max Horiz 11=187 (LC 5)

Max Uplift 7=-107 (LC 9), 11=-133 (LC 8) Max Grav 7=995 (LC 16), 11=1069 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/39, 2-3=-1346/167, 3-4=-1217/211,

4-5=-1216/212, 5-6=-1344/168, 2-11=-940/170 6-7=-850/142

BOT CHORD 10-11=-166/1171, 8-10=-25/819,

7-8=-84/1050

4-8=-110/523, 5-8=-282/207, 4-10=-111/528,

3-10=-261/203

WFBS NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 11 and 107 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



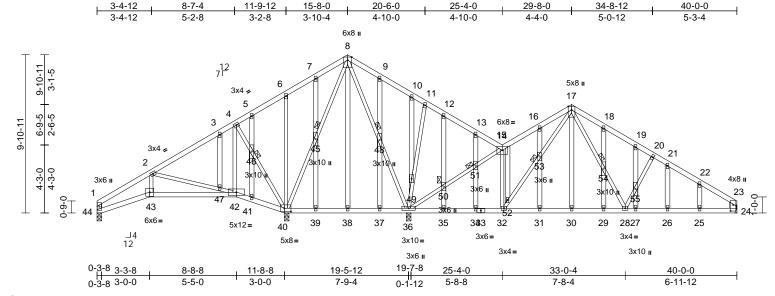
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	D1	Roof Special Structural Gable	1	1	Job Reference (optional)	165090797

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:22 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:72

Plate Offsets	(X, Y):	[23:0-4-6,0-2-0],	[40:0-5-0,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.05	26-27	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.08	26-27	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	25-26	>999	240	Weight: 255 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 44-1:2x4 SPF No.2,

24-23:2x6 SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

5-6-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 45,

46, 48, 50, 51, 53,

54

REACTIONS (size) 24= Mechanical, 36=0-3-8, 40=0-3-8, 44=0-3-8

44=256 (LC 7) Max Horiz

24=-129 (LC 11), 36=-331 (LC 11), Max Uplift

40=-283 (LC 10), 44=-36 (LC 11)

Max Grav 24=722 (LC 25), 36=1630 (LC 25),

40=1243 (LC 24), 44=221 (LC 24)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-338/60, 2-3=-111/488, 3-4=-69/494,

4-5=-67/623. 5-6=-60/696. 6-7=-6/629.

7-8=0/669, 8-9=0/712, 9-10=0/703,

10-11=0/671, 11-12=-4/722, 12-13=-33/678, 13-14=-74/644, 14-15=-436/166,

15-16=-400/178, 16-17=-362/227,

17-18=-733/288, 18-19=-769/245,

19-20=-765/213. 20-21=-792/203.

21-22=-869/192, 22-23=-911/144,

1-44=-251/58, 23-24=-582/113

BOT CHORD 43-44=-269/387, 42-43=-249/347,

41-42=-390/183, 40-41=-400/181,

39-40=-388/215, 38-39=-388/215, 37-38=-386/215, 36-37=-386/215,

35-36=-21/305, 34-35=-21/305,

32-34=-21/305, 31-32=0/434, 30-31=0/434,

29-30=0/437, 28-29=0/437, 27-28=-96/715,

26-27=-96/715, 25-26=-96/715,

24-25=-96/715

WEBS 2-43=-27/208, 2-47=-606/239, 42-47=-624/248 4-42=-27/206

4-46=-416/148, 40-46=-423/150,

6-40=-238/110. 40-45=-520/47.

8-45=-565/51, 8-48=-645/43, 36-48=-672/47,

36-49=-296/132, 11-49=-229/97,

36-50=-943/246, 50-51=-936/245 14-51=-936/244, 14-32=-4/411

32-52=-298/0, 52-53=-347/0, 17-53=-352/0,

17-54=-148/421, 28-54=-154/441,

28-55=-227/118, 20-55=-194/106,

8-38=-1/154, 7-45=-30/54, 39-45=-73/55, 5-46=0/17, 41-46=-3/22, 3-47=-66/31,

9-48=-139/72, 37-48=-112/69, 10-49=-70/36,

12-50=-8/50, 35-50=0/60, 13-51=-62/58,

34-51=-62/56, 15-52=0/60, 16-53=-80/72

31-53=-82/68, 17-30=-21/167, 18-54=-87/64

29-54=-110/72, 19-55=-88/39, 27-55=-53/26,

21-26=0/72, 22-25=-83/71

NOTES

Unbalanced roof live loads have been considered for 1) this design.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2
- 11) Refer to girder(s) for truss to truss connections.
- 12) Bearing at joint(s) 44 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



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Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	D1	Roof Special Structural Gable	1	1	Job Reference (optional)	165090797

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:22 Page: 2

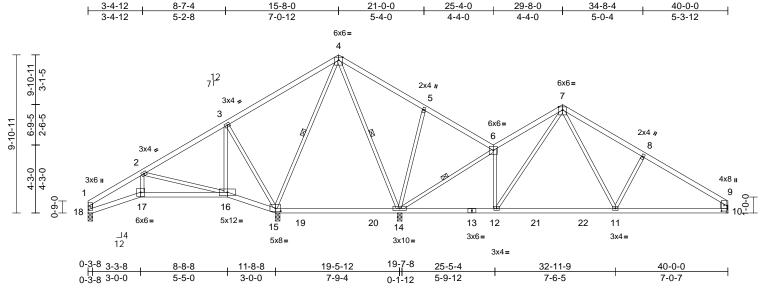
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 40, 331 lb uplift at joint 36, 129 lb uplift at joint 24 and 36 lb uplift at joint 44.
- 14) This truss is designed in accordance with the 2018
 International Residential Code sections R502.11.1 and
 R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	D2	Roof Special	2	1	Job Reference (optional)	165090798

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Scale = 1:72

Plate Offsets (X, Y):	[9:0-4-6,0-2-0],	[15:0-4-0,0-2-3]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.19	14-15	>488	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.28	14-15	>328	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	11-12	>999	240	Weight: 159 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 18-1:2x4 SPF No.2, WEBS

10-9:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing, Except:

10-0-0 oc bracing: 11-12,10-11. WEBS 1 Row at midpt 4-15, 4-14, 6-14

REACTIONS (size)

10= Mechanical, 14=0-3-8, 15=0-3-8, 18=0-3-8

18=258 (LC 7) Max Horiz

10=-124 (LC 11), 14=-348 (LC 11), Max Uplift 15=-264 (LC 10), 18=-37 (LC 11)

Max Grav 10=784 (LC 19), 14=2008 (LC 19), 15=1346 (LC 18), 18=226 (LC 24)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-327/67, 2-3=-70/579, 3-4=-34/872,

4-5=0/914, 5-6=-59/859, 6-7=-295/169,

7-8=-872/234, 8-9=-1001/192, 1-18=-255/68,

9-10=-659/155

BOT CHORD 17-18=-281/384, 16-17=-262/335,

15-16=-488/171, 14-15=-510/216,

12-14=-49/181, 11-12=0/372, 10-11=-104/763 2-17=-29/263, 2-16=-620/197, 3-16=-34/196,

3-15=-622/260, 4-15=-580/107,

4-14=-854/128, 5-14=-357/211, 6-12=0/593, 7-12=-420/28, 7-11=-91/599, 8-11=-297/203,

6-14=-1022/203

NOTES

WFBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 264 lb uplift at joint 15, 348 lb uplift at joint 14, 124 lb uplift at joint 10 and 37 lb uplift at joint 18.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

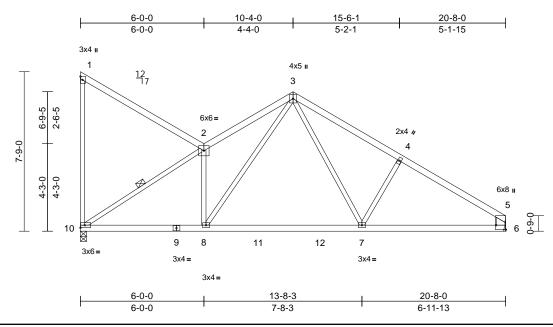
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	D3	Roof Special	3	1	Job Reference (optional)	165090799

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Scale = 1:56

Plate Offsets (X, Y): [5:Edge,0-5-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.21	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.34	7-8	>709	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	7-8	>999	240	Weight: 81 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 6-5:2x6 SP 2400F WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-1-9 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS

2-10 1 Row at midpt

REACTIONS (size) 6= Mechanical, 10=0-3-8

Max Horiz 10=-237 (LC 6)

Max Uplift 6=-28 (LC 11), 10=-62 (LC 11)

Max Grav 6=1041 (LC 17), 10=1079 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-199/60, 1-2=-181/91, 2-3=-1426/99.

3-4=-1301/105, 4-5=-1437/71, 5-6=-897/62

BOT CHORD 8-10=0/1167, 7-8=0/779, 6-7=-16/1130

2-10=-1450/92, 2-8=-297/82, 3-8=-1/696,

3-7=-18/516, 4-7=-256/128

WEBS NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 10 and 28 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

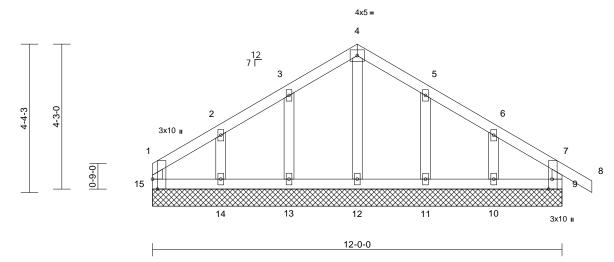
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	E1	Common Supported Gable	1	1	Job Reference (optional)	165090800

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Scale = 1:33.8

Plate Offsets (X, Y): [1:0-3-8,Edge], [9:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 45 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=12-0-0, 10=12-0-0, 11=12-0-0, 12=12-0-0, 13=12-0-0, 14=12-0-0,

15=12-0-0 Max Horiz 15=-119 (LC 4)

Max Uplift 9=-26 (LC 8), 10=-75 (LC 9),

11=-62 (LC 9), 13=-60 (LC 8), 14=-82 (LC 8), 15=-23 (LC 9)

Max Grav 9=170 (LC 1), 10=182 (LC 16) 11=195 (LC 22), 12=156 (LC 1)

13=189 (LC 21), 14=212 (LC 15),

15=92 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-75/61, 2-3=-65/76, 3-4=-56/106, 4-5=-50/103, 5-6=-56/72, 6-7=-73/49,

7-8=0/36 1-15=-69/30 7-9=-150/35

BOT CHORD 14-15=-54/66, 13-14=-54/66, 12-13=-54/66,

11-12=-54/66, 10-11=-54/66, 9-10=-54/66 4-12=-116/0. 3-13=-151/87. 2-14=-157/97.

5-11=-156/88. 6-10=-137/91

WFBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 15, 26 lb uplift at joint 9, 60 lb uplift at joint 13, 82 lb uplift at joint 14, 62 lb uplift at joint 11 and 75 lb uplift at joint
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



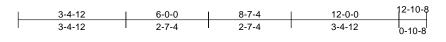
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

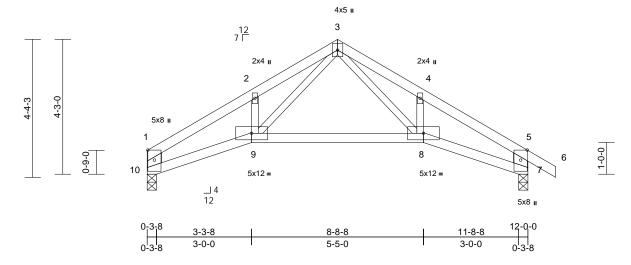
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	E2	Roof Special	1	1	Job Reference (optional)	165090801

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Scale = 1:36.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.10	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.21	8-9	>662	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.10	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	8-9	>999	240	Weight: 41 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 *Except* 10-1,7-5:2x6 SPF WEBS

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-6-6 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

7=0-3-8, 10=0-3-8 Max Horiz 10=-121 (LC 4)

Max Uplift 7=-86 (LC 9), 10=-60 (LC 8)

Max Grav 7=600 (LC 1), 10=516 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-986/117, 2-3=-883/209, 3-4=-873/170,

4-5=-997/76, 5-6=0/39, 1-10=-659/101,

5-7=-765/104

9-10=-98/819, 8-9=-6/495, 7-8=-11/786

3-8=-117/400, 4-8=-44/139, 3-9=-141/445,

2-9=-75/134

WEBS NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.

- 6) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 10 and 86 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

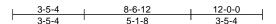
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	E3	Monopitch Girder	1	2	Job Reference (optional)	165090802

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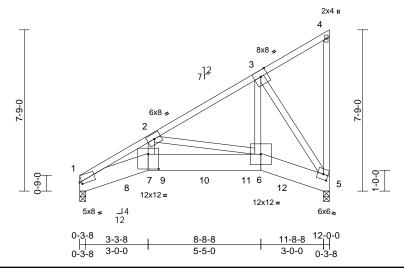


Plate Offsets (X, Y): [1:0-1-4,0-1-5], [5:0-2-11,0-3-0], [7:0-6-0,0-8-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.13	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.22	6-7	>646	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.12	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	6-7	>999	240	Weight: 182 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x10 SP 2400F 2.0E **BOT CHORD** 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-1 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=0-3-8, 5=0-3-8 (size)

Max Horiz 1=284 (LC 7)

Max Grav 1=4736 (LC 15), 5=4814 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-11140/0, 2-3=-3623/0, 3-4=-158/84,

4-5=-79/45

BOT CHORD 1-7=0/9881, 6-7=0/8633, 5-6=0/3926

2-7=0/5503, 2-6=-5626/0, 3-6=0/6712, **WEBS**

3-5=-6260/0

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows Top chords connected as follows: 2x4 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows

staggered at 0-5-0 oc.

- Web connected as follows: 2x4 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF 2100F 1.8E.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1685 lb down and 164 lb up at 2-0-0, 1716 lb down at 4-0-0, 1716 lb down at 6-0-0, and 1712 lb down at 8-0-0, and 1685 lb down and 164 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-4=-70, 1-7=-20, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 8=-1516 (B), 9=-1516 (B), 10=-1516 (B),

11=-1516 (B), 12=-1516 (B)



April 24,2024



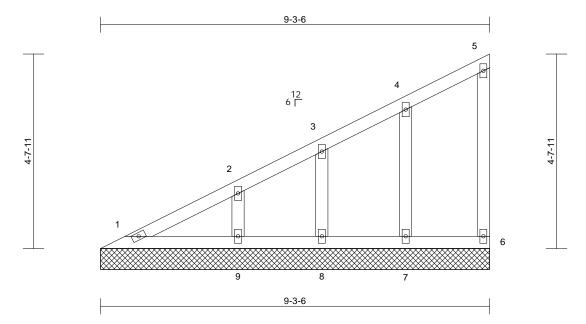
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V1	Valley	1	1	Job Reference (optional)	165090803

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Scale = $1:2$	21	٠.5
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 1=9-3-6, 6=9-3-6, 7=9-3-6, 8=9-3-6, 9=9-3-6

Max Horiz 1=177 (LC 5)

Max Uplift 6=-24 (LC 5), 7=-57 (LC 8), 8=-47

(LC 8), 9=-75 (LC 8)

Max Grav 1=115 (LC 16), 6=68 (LC 1), 7=194

(LC 1), 8=155 (LC 1), 9=251 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-147/54, 2-3=-113/36, 3-4=-99/43,

4-5=-79/45, 5-6=-52/24

BOT CHORD 1-9=-61/46, 8-9=-61/46, 7-8=-61/46,

6-7=-61/46

WFBS 4-7=-150/71, 3-8=-124/73, 2-9=-188/102

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 6, 57 lb uplift at joint 7, 47 lb uplift at joint 8 and 75 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

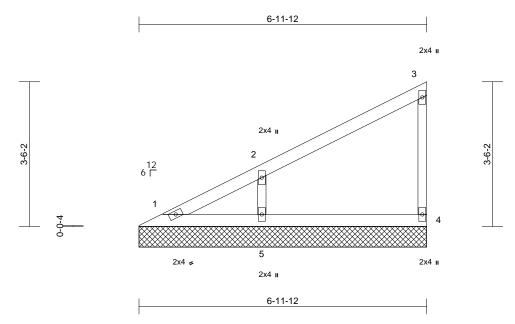
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V2	Valley	1	1	Job Reference (optional)	165090804

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Scal	le	=	1	:2	8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=6-11-12, 4=6-11-12, 5=6-11-12

Max Horiz 1=131 (LC 5)

Max Uplift 4=-27 (LC 8), 5=-111 (LC 8)

1=71 (LC 16), 4=142 (LC 1), 5=370 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-111/58, 2-3=-106/43, 3-4=-111/46

BOT CHORD 1-5=-45/34 4-5=-45/34

2-5=-288/161 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) All bearings are assumed to be SPF No.2 .

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 111 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



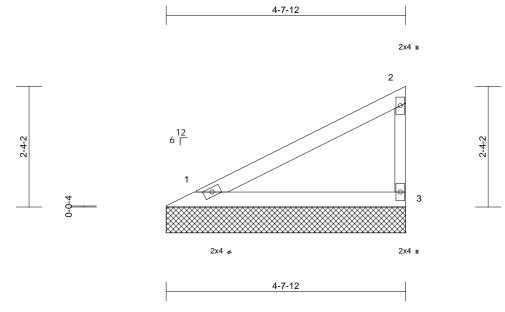
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V3	Valley	1	1	Job Reference (optional)	165090805

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-8-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=4-7-12, 3=4-7-12

Max Horiz 1=83 (LC 5)

Max Uplift 1=-23 (LC 8), 3=-44 (LC 8) Max Grav 1=178 (LC 1), 3=178 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-75/50, 2-3=-138/67

BOT CHORD 1-3=-28/21

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 1 and 44 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



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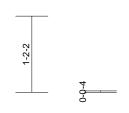
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

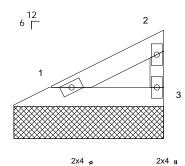


Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V4	Valley	1	1	Job Reference (optional)	165090806

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2-3-12

Scale = 1:17.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-3-12, 3=2-3-12

Max Horiz 1=34 (LC 5)

Max Uplift 1=-9 (LC 8), 3=-18 (LC 8) Max Grav 1=73 (LC 1), 3=73 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-31/20, 2-3=-57/28

BOT CHORD 1-3=-12/9

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 18 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024







Job	Truss	Truss Type	Qty	Ply	Lot 184 HT		
B240082	V5	Valley	1	1	Job Reference (optional)	165090807	

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:23 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

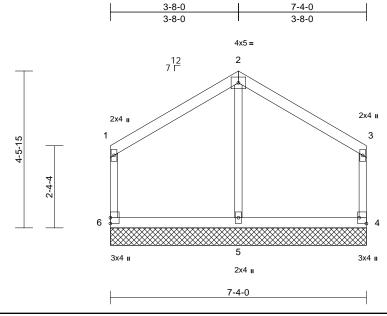


Plate Offsets (X, Y): [3:0-0-0,Edge], [4:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 25 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=7-4-0, 5=7-4-0, 6=7-4-0

Max Horiz 6=134 (LC 5)

Max Uplift 4=-48 (LC 9), 6=-48 (LC 8)

Max Grav 4=154 (LC 22), 5=334 (LC 1), 6=154 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-125/64, 1-2=-88/65, 2-3=-88/65,

3-4=-125/64

BOT CHORD 5-6=-71/71, 4-5=-71/71

WEBS 2-5=-252/34

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 0-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 6 and 48 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

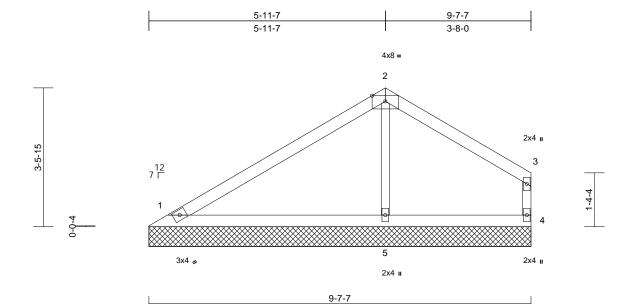
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V6	Valley	1	1	Job Reference (optional)	165090808

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:23 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

(size) REACTIONS 1=9-7-7, 4=9-7-7, 5=9-7-7

Max Horiz 1=98 (LC 5)

Max Uplift 1=-36 (LC 8), 4=-60 (LC 9), 5=-43

(LC 8)

1=227 (LC 1), 4=159 (LC 22), Max Grav

5=454 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-161/113, 2-3=-102/63, 3-4=-138/74

BOT CHORD 1-5=-21/31, 4-5=-21/31

WEBS 2-5=-320/96

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 60 lb uplift at joint 4 and 43 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



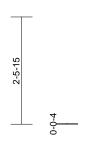
April 24,2024

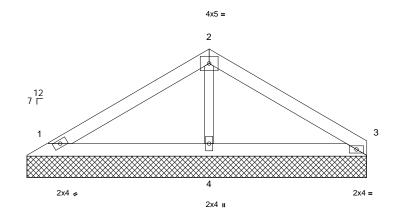


Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V7	Valley	1	1	Job Reference (optional)	165090809

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7-10-12

Scale = 1:26.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=7-10-12, 3=7-10-12, 4=7-10-12

Max Horiz 1=57 (LC 5)

Max Uplift 1=-41 (LC 8), 3=-48 (LC 9) Max Grav 1=182 (LC 1), 3=179 (LC 1), 4=304

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-103/53, 2-3=-99/39 **BOT CHORD** 1-4=-11/47, 3-4=-11/47

WFBS 2-4=-211/55

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1 and 48 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

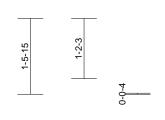
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

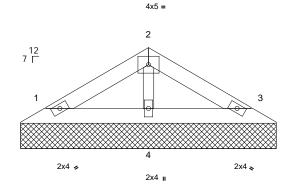


Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V8	Valley	1	1	Job Reference (optional)	I65090810

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2-6-5	4-6-10	5-0-9
2-6-5	2-0-6	n_5_15





5-0-9

Scale = 1:22.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-1-7 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=5-0-9, 3=5-0-9, 4=5-0-9

Max Horiz 1=-31 (LC 4)

Max Uplift 1=-22 (LC 8), 3=-26 (LC 9)

Max Grav 1=98 (LC 1), 3=98 (LC 1), 4=166

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-56/29, 2-3=-54/21 **BOT CHORD** 1-4=-6/26, 3-4=-6/26

WFBS 2-4=-116/30

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 26 lb uplift at joint 3.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



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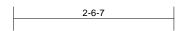


Ply Qty Job Truss Truss Type Lot 184 HT 165090811 B240082 V9 Valley Job Reference (optional)

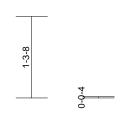
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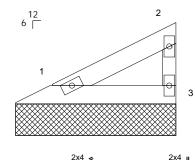
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Page: 1



2x4 II







2-6-7

Scale = 1:18.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-15 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-6-7, 3=2-6-7

Max Horiz 1=39 (LC 5)

Max Uplift 1=-11 (LC 8), 3=-20 (LC 8) Max Grav 1=83 (LC 1), 3=83 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-35/23, 2-3=-65/31

BOT CHORD 1-3=-13/10

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 1 and 20 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



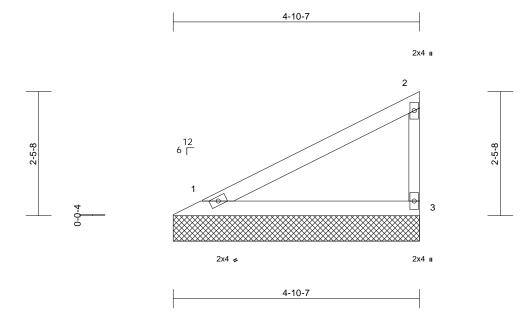
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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V10	Valley	1	1	Job Reference (optional)	165090812

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Scale = 1:22.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=4-10-7, 3=4-10-7

Max Horiz 1=87 (LC 5)

Max Uplift 1=-24 (LC 8), 3=-46 (LC 8) Max Grav 1=188 (LC 1), 3=188 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-80/52, 2-3=-146/71

BOT CHORD 1-3=-30/23

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1 and 46 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISS SCOTT M. **SEVIER** NUMBER PE-2001018807 SIONAL

April 24,2024



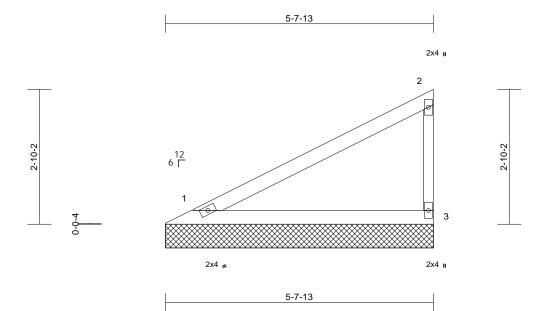
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V11	Valley	1	1	Job Reference (optional)	165090813

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Scale = 1:24.3	Scal	le	=	1	:24	.:
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.47	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=5-7-13, 3=5-7-13

Max Horiz 1=103 (LC 5)

Max Uplift 1=-29 (LC 8), 3=-55 (LC 8) Max Grav 1=223 (LC 1), 3=223 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-94/62, 2-3=-173/84

BOT CHORD 1-3=-35/27

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1 and 55 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807

April 24,2024



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Ply Qty Job Truss Truss Type Lot 184 HT 165090814 B240082 V12 Valley Job Reference (optional)

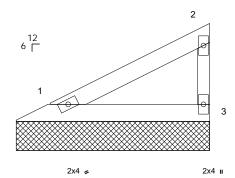
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2x4 II

Page: 1







3-3-13

Scale = 1:19.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-5 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=3-3-13, 3=3-3-13

Max Horiz 1=55 (LC 5)

Max Uplift 1=-15 (LC 8), 3=-29 (LC 8) Max Grav 1=118 (LC 1), 3=118 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-50/33, 2-3=-92/45 BOT CHORD 1-3=-19/14

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1 and 29 lb uplift at joint 3.

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



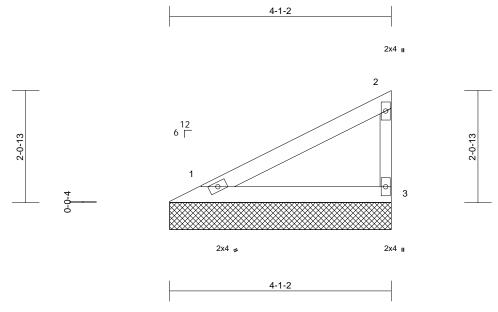
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V13	Valley	1	1	Job Reference (optional)	165090815

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:23 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:21.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=4-1-2, 3=4-1-2

Max Horiz 1=71 (LC 5)

Max Uplift 1=-20 (LC 8), 3=-38 (LC 8) Max Grav 1=153 (LC 1), 3=153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-65/43, 2-3=-119/58

BOT CHORD 1-3=-24/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 38 lb uplift at joint 3.

9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807

April 24,2024



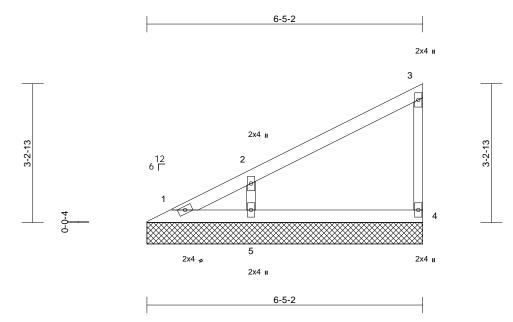
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V14	Valley	1	1	Job Reference (optional)	165090816

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale	_ ′	1.26	Я

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 SPF No.2 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=6-5-2, 4=6-5-2, 5=6-5-2

Max Horiz 1=120 (LC 5)

Max Uplift 1=-1 (LC 19), 4=-29 (LC 8), 5=-108 (LC 8)

1=47 (LC 5), 4=143 (LC 1), 5=360 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-105/55, 2-3=-102/42, 3-4=-111/48

BOT CHORD 1-5=-41/31, 4-5=-41/31

WEBS 2-5=-280/156

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 29 lb uplift at joint 4 and 108 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



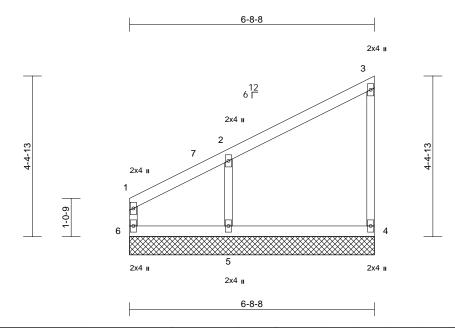
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V15	Valley	1	1	Job Reference (optional)	165090817

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:pK1UQVtBztLyjw2a7WONTCyo?CR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0			1							Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

4=6-8-8, 5=6-8-8, 6=6-8-8

Max Horiz 6=149 (LC 9)

Max Uplift 4=-18 (LC 9), 5=-118 (LC 12) Max Grav 4=164 (LC 18), 5=380 (LC 18),

6=113 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-86/6, 1-2=-117/57, 2-3=-110/41,

3-4=-130/40

BOT CHORD 5-6=-51/40, 4-5=-51/40

WEBS 2-5=-301/146

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4 and 118 lb uplift at joint 5.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



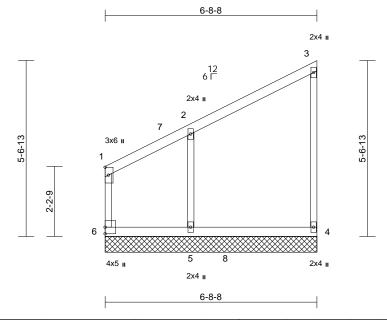
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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V16	Valley	1	1	Job Reference (optional)	165090818

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:SqAkE9Pj8uQVXwZ5LqBDO_yo?D2-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-R								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

> 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size)

4=6-8-8, 5=6-8-8, 6=6-8-8

Max Horiz 6=189 (LC 9)

Max Uplift 4=-23 (LC 9), 5=-137 (LC 12),

6=-22 (LC 8)

Max Grav 4=188 (LC 5), 5=425 (LC 25),

6=168 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-113/21, 1-2=-135/64, 2-3=-117/49,

3-4=-130/37

BOT CHORD 5-6=-72/53. 4-5=-72/53 **WEBS** 2-5=-301/153

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 6, 23 lb uplift at joint 4 and 137 lb uplift at joint 5.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



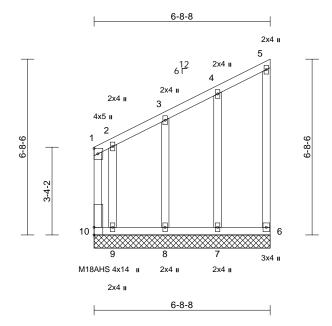
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Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V17	Valley	1	1	Job Reference (optional)	165090819

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:wWQ0cVuS969af?GecLrtCNzdMNG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	M18AHS	142/136
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(TL)	n/a	-	n/a	999	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 41 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size) 6=6-8-8, 7=6-8-8, 8=6-8-8, 9=6-8-8,

10=6-8-8 Max Horiz 10=252 (LC 5)

Max Uplift 6=-95 (LC 5), 7=-33 (LC 8), 8=-60 (LC 8), 9=-859 (LC 5), 10=-395 (LC

6=91 (LC 15), 7=195 (LC 16),

8=187 (LC 1), 9=447 (LC 6),

10=903 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

> 1-10=-410/155, 1-2=-287/93, 2-3=-133/47, 3-4=-111/55, 4-5=-98/62, 5-6=-55/48

BOT CHORD 9-10=-105/74, 8-9=-105/74, 7-8=-105/74,

6-7=-105/74

Max Grav

4-7=-145/39, 3-8=-146/95, 2-9=-191/369

WEBS NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 395 lb uplift at joint 10, 95 lb uplift at joint 6, 33 lb uplift at joint 7, 60 lb uplift at joint 8 and 859 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 $\,$ International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



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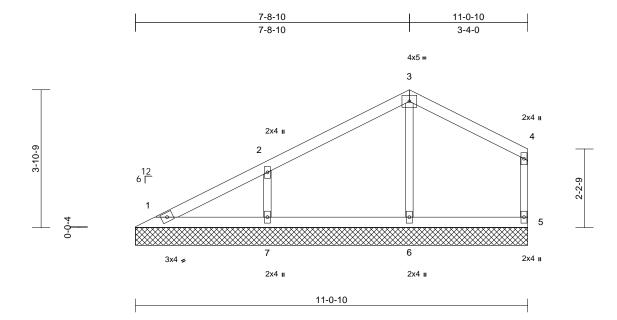
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V18	Valley	1	1	Job Reference (optional)	165090820

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:jwAEGzbxScdkHArt6lc6s1zNvEs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-S								
BCDL	10.0			1							Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing

BOT CHORD REACTIONS (size)

1=11-0-10, 5=11-0-10, 6=11-0-10, 7=11-0-10

Max Horiz 1=92 (LC 9)

Max Uplift 5=-33 (LC 13), 7=-97 (LC 12) Max Grav

1=106 (LC 2), 5=158 (LC 19),

6=315 (LC 2), 7=382 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-83/64, 2-3=-97/61, 3-4=-72/51,

4-5=-132/47

BOT CHORD 1-7=-23/18, 6-7=-23/18, 5-6=-23/18 **WEBS** 3-6=-238/35, 2-7=-298/142

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5 and 97 lb uplift at joint 7.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

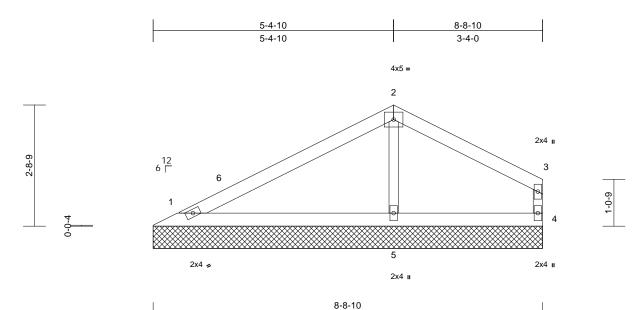


April 24,2024



Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V19	Valley	1	1	Job Reference (optional)	l65090821

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 ID:Xo?4zCS11DEISUVmzyvXwizNvF1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:25.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	n/a	-	n/a	999	MT20	197/144
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P								
BCDL	10.0										Weight: 23 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

1=8-8-10, 4=8-8-10, 5=8-8-10 Max Horiz 1=48 (LC 9)

Max Uplift 1=-34 (LC 12), 4=-41 (LC 13), 5=-1 (LC 12)

1=207 (LC 2), 4=146 (LC 19), Max Grav

5=384 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-69/68, 2-3=-46/46, 3-4=-128/52 TOP CHORD

1-5=-10/8, 4-5=-10/8 **BOT CHORD**

WEBS 2-5=-281/63

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 41 lb uplift at joint 4 and 1 lb uplift at joint 5.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

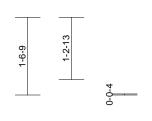


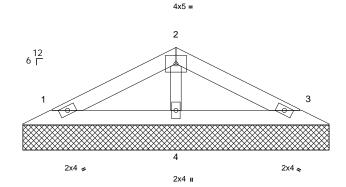
Job	Truss	Truss Type	Qty	Ply	Lot 184 HT	
B240082	V20	Valley	1	1	Job Reference (optional)	165090822

Run: 8.73 S Apr 3 2024 Print: 8.730 S Apr 3 2024 MiTek Industries, Inc. Tue Apr 23 07:51:24 $ID: qtPlsnKmO9_iFykrNrkAWbzNvFB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ffraction and the property of the$

Page: 1

3-0-10	5-6-5	6-1-4
3-0-10	2-5-11	0-6-15





6-1-4

Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-P									
BCDL	10.0										Weight: 14 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=6-1-4, 3=6-1-4, 4=6-1-4

Max Horiz 1=20 (LC 16)

Max Uplift 1=-21 (LC 12), 3=-24 (LC 13) Max Grav 1=116 (LC 2), 3=116 (LC 2), 4=212

(LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-56/28, 2-3=-56/20 **BOT CHORD** 1-4=0/24, 3-4=0/24 **WEBS** 2-4=-150/33

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SPF No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 24 lb uplift at joint 3.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 24,2024



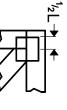
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

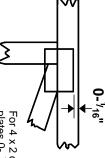


Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

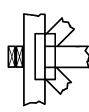
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

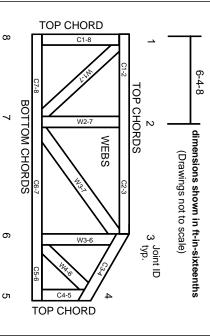
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.